Request for Bids
Self-Contained Breathing Apparatus (SCBA)
City of Morgantown
Fire Department
Mark Caravasos, Fire Chief

Bid Responses Due By: January 29, 2016 at 3:00 p.m.

Go to www.morgantownwv.gov/fireRFB for the complete packet of bid documents

Submittals shall be delivered in a sealed package container or envelope clearly marked on the outermost portion of the package: Morgantown Fire Department SCBA Bid # 2016-04

Bids will be received at:
City of Morgantown
Finance Department
389 Spruce Street
Morgantown WV 26505

Direct Questions to:
Chief Mark Caravasos
E-Mail: macaravasos@morgantownwv.gov
Phone: (304) 284-7480

ANTICIPATED SCHEDULE OF EVENTS

EVENT	DATE
Questions and Clarification Requests Due	January 22,2016
Bid Due Date and Opening	January 29, 2016
Anticipated Award Date	February 15, 2016

CITY OF MORGANTOWN FIRE DEPARTMENT

REQUEST FOR BIDS ON

SELF-CONTAINED BREATHING APPARATUS

1. INTRODUCTION

1.1. The City of Morgantown Fire Department is seeking bids for purchase of self-contained breathing apparatus (SCBA) and related components. The SCBA and related components shall meet the minimum specifications listed below. All bids must conform to these specifications and be presented on the forms provided for that purpose.

2. BIDS

2.1. Bids must be submitted on the forms included in this document, and must be properly signed in the spaces indicated. Two (2) complete sets of your bid must be submitted in a sealed envelope plainly marked with the bid number through the City of Morgantown Purchasing Department. Bids submitted otherwise will not be acceptable.

2.2. The City of Morgantown reserve the right to reject any or all bids, waive technicalities, and to be the sole judge of suitability of the equipment or services for its intended use and further specifically reserve the right to make the award in the best interests of the City. All equipment or services listed is intended for a particular use by the City in which it is to be utilized and must meet the requirements of that particular division(s). Other factors to be considered in awarding the bid will be price, quality, and time required to make delivery. Unless otherwise specified by the bidder, the City reserves the right to accept any item in the bid and to award items to one single provider.

2.3. Failure to respond to any requirements outlined in this RFB, or failure to enclose copies of the required documents, may disqualify the bid.

2.4. Since time is of the essence, the date of delivery as shown in the Bid may be taken into consideration in the award or in the cancellation of the award for breach of contract.

2.5. A contract will be awarded after an evaluation of all bids have been made, and in the interest of suitability to the City's needs and/or economy, equipment, furnishings or service other than the cheapest in price may be selected.

3. EXCEPTIONS TO SPECIFICATIONS

3.1. These specifications are based upon design and performance criteria which have been researched and analyzed by the department. Therefore, major exceptions to these specifications will not be accepted.

3.2. To the right side of each section for a particular specification, the bidder shall state "YES", "NO" or "EXCEPTION" indicating the exact compliance with the specification.

3.3. All deviations and exceptions, no matter how slight, shall be clearly explained in writing with the bid proposal. All exceptions must list the section and fully describe the exception or alternative.

3.4. The City of Morgantown Fire Department may choose to reject bids based on exceptions. Any exceptions that make the SCBA non-compliant with the National Fire Protection Association's 2013 Edition of NFPA-1981 Standard on Open-Circuit Self-Contained Breathing Apparatus will result in the bid being rejected.

4. WARRANTY INFORMATION

4.1. Vendor shall state specifically in the bid the manufacturer's warranty regarding parts and labor, and the duration of the warranty in years. If separate parts of the SCBA/cylinder/facepiece have different warranties, this shall be specified in the bid. The vendor shall state specifically any and all regularly scheduled maintenance and requirements outlined by the manufacturer to maintain any and all warranties.

4.2. Additionally, the vendor shall also provide specific information regarding where said maintenance can and/or should be performed (i.e., within Morgantown Fire Department, manufacturer's service center, etc.).

5. COST OF OWNERSHIP

5.1. The vendor and/or manufacturer's representative shall, to the best of their ability, provide documentation and/or information regarding their SCBA's projected "cost of ownership" over a five, ten and fifteen-year period.

6. CONTACT

6.1. Questions regarding the specifications should be directed to Chief Caravasos, City of Morgantown Fire Department, (304) 284-7480 or macaravasos@morgantownwv.gov

7. MINIMUM SPECIFICATIONS OF THE SELF-CONTAINED BREATHING APPARATUS

7.1. It is the intent of these minimum specifications to describe certain equipment in sufficient detail to obtain competitive bids from qualified vendors for the furnishing and delivery of said equipment to be used by the City of Morgantown Fire Department. All parts not specifically mentioned which are necessary to provide the described equipment shall be included in the proposal and shall conform in strength and quality or material and workmanship to what is usually provided for the trade in general. Any omissions of components in these specifications are inadvertent and should be included in the proposed SCBA.

	Meets Specifications		
	Yes	**No**	**Exception**
7.2. SCBA shall be approved by the National Institute for Occupational Safety and Health (NIOSH), under 42 CFR, Part 84 for chemical, biological, radiological, and nuclear protection (CBRN) with 45 or 60 minute-rated service life and compliant with all requirements of the National Fire Protection Association's 2013 Edition of NFPA-1981 Standard on Open-Circuit Self-Contained Breathing Apparatus.	☐	☐	☐
7.3. Units equipped with integrated PASS device must meet requirements of NFPA 1982, 2013 edition.	☐	☐	☐
7.4. Units equipped with accountability system must meet minimum requirements for FCC part 15 and part 90.	☐	☐	☐

	Meets Specifications		
7.5. **Facepiece**	**Yes**	**No**	**Exception**
7.5.1. Facepiece shall have removable inhalation check valve to prevent exhaled air from entering and contaminating the second stage regulator	☐	☐	☐
7.5.2. Facepiece shall not contain electronic components	☐	☐	☐
7.5.3. Facepiece shall provide means to display to user with visual indicators for Heads-Up Display (HUD).	☐	☐	☐
7.5.4. Facepiece shall have icon for HUD system status indicators	☐	☐	☐
7.5.5. Facepiece shall have effective field of view of 86% and overlapping field of view of 122% without attached component	☐	☐	☐
7.5.6. Facepiece shall have universal lens that can be used with all three facepiece sizes, shall be comprised of non-shatter type material and shall be field-replaceable	☐	☐	☐
7.5.7. Lens shall be hard-coated on outside and anti-fog coated on inside	☐	☐	☐
7.5.8. Facepiece shall have exhalation valve that is to be serviceable without special tools	☐	☐	☐
7.5.9. Facepiece shall be capable of water submersion for cleaning and disinfection	☐	☐	☐
7.5.10. Facepiece provides RFID chip for asset and maintenance tracking	☐	☐	☐

	Meets Specifications		
7.6. **Mask-Mounted Regulator**	**Yes**	**No**	**Exception**
7.6.1. The second stage regulator shall be a Push-to-Connect style	☐	☐	☐
7.6.2. When doffing regulator, regulator disengagement shall simultaneously stop air flow and release regulator	☐	☐	☐
7.6.3. Regulator shall house electronic module that functions as microphone and HUD system	☐	☐	☐
7.6.4. Regulator shall be equipped with variable flow bypass	☐	☐	☐
7.6.5. Regulator shall have an optional purge cover	☐	☐	☐
7.6.6. Regulator shall have RFID chip for asset and maintenance tracking	☐	☐	☐

	Meets Specifications		
7.7. **Heads-Up Display (HUD)**	**Yes**	**No**	**Exception**
7.7.1. HUD shall be powered from central power system	☐	☐	☐
7.7.2. HUD System shall be immune to radio frequency interference (RFI) and must function properly in close proximity to fire service hand-held radios	☐	☐	☐
7.7.3. HUD shall incorporate photoelectric sensor that senses ambient light conditions, automatically adjusting display to one of multiple pre-programmed light intensities	☐	☐	☐
7.7.4. Buddy lights shall be visible from outside of firefighter's facepiece	☐	☐	☐
7.7.5. HUD shall be field-removable and replaceable without use of special tools	☐	☐	☐

	Meets Specifications		
7.8. **Universal Air Connection (UAC) & Emergency Escape Breathing Support System**	**Yes**	**No**	**Exception**
7.8.1. System shall be capable of:			
7.8.1.1. Refill within immediately dangerous to life or health (IDLH) atmospheres	☐	☐	☐
7.8.1.2. Transfilling between two SCBA wearers (connection allows for donation and receipt of air), providing emergency breathing system (EBS) while maintaining NIOSH approvals	☐	☐	☐
7.8.1.3. Quickly refilling (approximately one-minute duration) SCBA cylinder from mobile compressor, cascade system or RIT pack	☐	☐	☐
7.8.1.4. Extending wearer's air supply over longer duration when remote cascade system or other compressed gas source is located within remote area	☐	☐	☐
7.8.2. Primary UAC shall be illuminated when supply pressure reaches Low Pressure Warning Alarm or can be configured to optional medium pressure warning alarm	☐	☐	☐
7.8.3. SCBA shall have secondary options for UAC to be mounted on user's waist	☐	☐	☐
7.8.4. SCBA shall have an optional pouch equipped with a 3 foot quick-fill hose	☐	☐	☐
7.8.5. As an option, an emergency escape breathing support system must be accommodated by the SCBA.	☐	☐	☐
7.8.6. The system must be available with a common SCBA quick-disconnect fitting and be 3 foot in length.	☐	☐	☐

7.8.7. The system, when in use, shall use the cylinder of highest pressure first and then alternate between the cylinder with the highest pressure.	☐	☐	☐
7.8.8. The system shall have both male and female connections.	☐	☐	☐
7.8.9. The system shall have the option for an airline adapter.	☐	☐	☐

	Meets Specifications		
7.9. **Pressure Reducer (First-Stage Regulator) with Primary Low Pressure Warning Device**	**Yes**	**No**	**Exception**
7.9.1. Pressure reducer shall incorporate downstream valve to ensure fail-safe design when in open position	☐	☐	☐
7.9.2. Pressure reducer shall incorporate bell alarm mechanism. Bell alarm mechanism shall be an air-actuated, continuously ringing audible warning alarm, automatically operating when supply cylinder air pressure reaches approximately 33% of rated service life	☐	☐	☐
7.9.3. Pressure reducer shall have no more than 42 individual regulator replacement parts	☐	☐	☐
7.9.4. Pressure reducer shall not require special tools for disassembly	☐	☐	☐
7.9.5. Pressure reducer shall have two accessory ports, one medium pressure and one high pressure	☐	☐	☐

	Meets Specifications		
7.10. **Cylinders**	**Yes**	**No**	**Exception**
7.10.1. Cylinder shall contain cylinder valve that shall incorporate pressure gauge to indicate cylinder pressure at all times. Pressure gauge face shall be luminescent. Hand wheel shall be placed at 90° angle from cylinder axis	☐	☐	☐
7.10.2. Cylinder valve shall incorporate flow control insert to limit air flow over hand wheel's first half-rotation, minimizing propulsion thrust in event that cylinder is mishandled	☐	☐	☐
7.10.3. Cylinder valve shall incorporate CGA thread that can be converted to quick connect cylinder without special tools	☐	☐	☐
7.10.4. Cylinder shall have RFID chip for asset and maintenance tracking	☐	☐	☐
7.10.5. Delivered cylinders more than 90 days past their manufacture date will not be accepted	☐	☐	☐

	Meets Specifications		
7.11. **PASS Device**	**Yes**	**No**	**Exception**
7.11.1. Power module shall provide power to all electronic SCBA components from the battery module and act as central power system	☐	☐	☐
7.11.2. Battery module shall be powered by alkaline batteries or one lithium-ion rechargeable battery	☐	☐	☐
7.11.3. PASS device shall be designed for battery level check and removal of batteries while SCBA remains in jump seat	☐	☐	☐
7.11.4. Power module shall be capable of illuminating UAC fitting when supply cylinder reaches 33% of rated service time	☐	☐	☐
7.11.5. Control module shall have analog and digital display for added redundancy. Analog gauge must be positioned above digital display as viewed by user	☐	☐	☐
7.11.6. Control module shall be equipped with full color graphical display. Display shall be reprogrammable and capable of future integrations. The display's background color shall coordinate with HUD pressure status	☐	☐	☐
7.11.7. PASS device shall be capable of being reprogrammed to fire department standard operating procedures (SOP). Using PC software program, configuration tag can be created and tagged on each device needed. Reprogramming options are as follows: 7.11.7.1. Medium pressure alarm 7.11.7.2. Pressure drop alarm 7.11.7.3. Primary temperature alarm 7.11.7.4. Secondary temperature alarm 7.11.7.5. Audible low pressure alarm	☐	☐	☐
7.11.8. PASS device shall be equipped with colored buddy lights on firefighter's front and back and viewable from 360° view; two buddy lights on front of user and four buddy lights in back of user. Lights shall include: green (pressure above 50% and no alarms), yellow (pressure between 34 and 50%) or red (below 34% or alarms are active)	☐	☐	☐
7.11.9. PASS device shall have optional time-remaining display. Time remaining function must update calculations every 30 seconds based upon user's previous three minutes of air consumption. Initial calculation will appear after three minutes.	☐	☐	☐
7.11.10. Control module shall have service mode that provides ability to see number of hours used, connect to PC and firmware versions	☐	☐	☐
7.11.11. Power and Control Modules shall have optional RFID chip for asset and maintenance tracking	☐	☐	☐

	Meets Specifications		
7.12. **Speaker Module**	**Yes**	**No**	**Exception**
7.12.1. Speaker module shall provide amplified speech that removes inhalation breath noise	☐	☐	☐
7.12.2. Speaker module shall provide at minimum, 70 dBa output	☐	☐	☐
7.12.3. Speaker module shall turn on and off with PASS device	☐	☐	☐
7.12.4. Speaker module shall be powered by central power system	☐	☐	☐
7.12.5. Speaker module shall be capable of passing NFPA heat and immersion leakage test	☐	☐	☐
7.12.6. Speaker module shall be positioned on chest and attached to shoulder straps	☐	☐	☐

	Meets Specifications		
7.13. **Carrier and Harness**	**Yes**	**No**	**Exception**
7.13.1. Shoulder harness shall have retro-reflective markings for better visibility within low light conditions	☐	☐	☐
7.13.2. Shoulder harness shall have localized frictions pads on shoulders to prevent slippage	☐	☐	☐
7.13.3. Waist pad shall be swiveling – standard pad attached to metal bracket	☐	☐	☐
7.13.4. Back plate shall have two side handles and one top handle that are accessible with gloved hand. Handles shall be capable of 500 lbs. of force.	☐	☐	☐
7.13.5. Back plate cylinder band shall be metal and easily adjust to accommodate different cylinder sizes.	☐	☐	☐
7.13.6. Harness design shall have regulator keeper for storage that can be attached to waist strap or chest strap	☐	☐	☐
7.13.7. Regulator keeper shall allow regulator to be connected at any angle	☐	☐	☐

OPTIONS

7.14. The City of Morgantown Fire Department has identified the following options that it will consider in addition to the minimum specifications. Additional options will be considered given they fall within the available budget for the project

	Meets Specifications		
7.15. **OPTION A**	**Yes**	**No**	**Exception**
7.15.1. Factory labeling of cylinders with a Morgantown Fire Department logo as an integral part of the cylinder wrap, add on or glued on stickers are not acceptable.	☐	☐	☐

	Meets Specifications		
7.16. **OPTION B**	**Yes**	**No**	**Exception**
7.16.1. Emergency Air Supply System (RIT Pack). The air source shall consist of the following components:			
7.16.1.1. A carrying bag	☐	☐	☐
7.16.1.2. External pressure gauge (optional)	☐	☐	☐
7.16.1.3. An audible low-pressure alarm	☐	☐	☐
7.16.1.4. A Universal Air Connection (UAC) high-pressure emergency airline that will function with any manufacturers NFPA 1981, 2002 compliant or newer self-contained breathing apparatus	☐	☐	☐
7.16.1.5. A low-pressure airline hose assembly with a low-pressure manifold that has a male and female quick disconnect and additional ports to allow the use of other SCBA manufacturer's low-pressure fittings.	☐	☐	☐
7.16.1.6. A RIT Style facepiece (optional)	☐	☐	☐
7.16.1.7. A second stage pressure regulator	☐	☐	☐

	Meets Specifications		
7.17. **OPTION C**	**Yes**	**No**	**Exception**
7.17.1. Supplied Air Respirator (SAR) harness assemblies and cylinders. These shall consist of a Kevlar adjustable waist strap and padded adjustable shoulder strap. The unit shall be equipped with a 10-minute escape cylinder.	☐	☐	☐

	Meets Specifications		
7.18. **OPTION D**	**Yes**	**No**	**Exception**
7.18.1. Air Purifying Respirator adaptor to be used with the SCBA facepiece	☐	☐	☐

	Meets Specifications		
7.19. **OPTION E**	**Yes**	**No**	**Exception**
7.19.1. Trade-in allowance (credit) for existing SCBA inventory. (See LIST OF PRESENT SCBA SUPPLIES FOR TRADE-IN ALLOWANCE). The City of Morgantown Fire Department solely reserves the right to exercise or not exercise this option. Any trade in allowance (credit) will be applied towards the purchase of SCBAs, related components, and/or testing/training costs.	☐	☐	☐

	Meets Specifications		
8. TRAINING AND FIT TESTING	**Yes**	**No**	**Exception**
8.1. The successful bidder shall provide, at no cost to the department, a technician level maintenance training class to two (2) members of the department at the manufacturer's location.	☐	☐	☐
8.2. The successful bidder will submit a plan for training all department personnel how to use the SCBA. The training program shall be in a Power Point or similar format.	☐	☐	☐
8.3. The successful bidder shall provide initial fit testing for all members of the fire department. The fit testing shall comply with quantitative fit testing protocol per OSHA 1910.134 Appendix A Part I.c.3 (CNC (PortaCount) protocol). Fit testing shall include proper fit for each user with all sizes of face piece and nose cup being utilized to insure an adequate fit test is achieved. A computer generated report shall be provided to the department. The report shall include the information specified in OSHA 1910.134(m) records.	☐	☐	☐

REQUIRED QUANTITIES AND PRICING

Item #	Quantity	Description	Price Each	Total Price
1	30	2013 Edition of NFPA-1981 4500 psig Compliant SCBA to include chest strap, swiveling lumbar pad, threaded cylinder connection, voice amplifier, metal cylinder band and emergency escape breathing support system.		
2	75	4500 psig, 45 minute rated, low profile, Carbon-Wrapped cylinder		
3	8	4500 psig, 60 minute rated, Carbon-Wrapped cylinder		
4	54	Facepiece with 4 point head harness and cloth neck strap		
5	54	Facepiece Bags, with drawstring closure, ID window and clip for securing bag.		
7	1	Updated software for Posi-Chek 3 USB		
9	5	Spectacle kits for use with facepiece		
10	1	Shipping Cost		
Total Price of Required Items				

9. OPTION PRICING

Option	Quantity	Description	Price Each	Total Price
A	83	Factory labeling of Cylinders with fire department logo		
B	1	Emergency Air Supply System with bag (RIT Pack)		
C		Supplied Airline Respirators (SAR) with 10 minute escape cylinder		
D		Air Purifying Respirator (APR) adaptors		
Total Price of Options				

10. TRADE IN QUANTITIES – OPTION E

Item #	Quantity	Description	Price Each	Total Price
1	30	MSA 1997 Compliant SCBA 3000PSI		
2	48	MSA Ultra Elite Facepiece		
3	60	MSA 30 min Composite Cylinders 3000psi		
4				
5				
Total Credit for Trade In Items				

CITY OF MORGANTOWN FIRE DEPARTMENT
REQUEST FOR BIDS ON
SELF-CONTAINED BREATHING APPARATUS

I, _____, as an authorized signer for my company hereby certify that the figures contained in this Bid Proposal are accurate and correct. I also have read and understand the specifications for the City of Morgantown, WV, Self-Contained Breathing Apparatus and submit this Bid Proposal for consideration.

Signed_____

Print Name_____

Title_____

Company_____

Mailing Address_____

Phone_____

Date_____